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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=10; day=27; hr=15; min=2; sec=33; ms=739;]

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Reviewer Comments:

<210> 12

<211> 42

<212> DNA

<213> Primer

<220>

<221> misc_feature

<222> (1)..(42)

<223> gag-mut1-rneu

<400> 12

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42

Numeric Identifier <213> can only be one of three choices, "Scientific name, i.e. Genus/species, Unknown or Artificial Sequence." For all sequences using "Unknown or Artificial sequence", for numeric identifier <213>, a mandatory feature is required to explain the source of the genetic material. The feature consists of <220>, which remains blank, and <223>, which states the source of the genetic material. Suggest using "Artificial sequence" for numeric identifier <213> and "Primer" for numeric identifier <223> in the mandatory feature. Please check for similar errors and make all necessary changes.

Application No: 10528748 Version No: 2.0

Input Set:**Output Set:**

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Finished: 2009-10-02 17:59:50.610
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 923 ms
Total Warnings: 2
Total Errors: 32
No. of SeqIDs Defined: 40
Actual SeqID Count: 40

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E 356	Organism is not permitted in <213> in SEQ ID (13)
E 356	Organism is not permitted in <213> in SEQ ID (14)
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E 356	Organism is not permitted in <213> in SEQ ID (19)
E 356	Organism is not permitted in <213> in SEQ ID (20)
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E 356	Organism is not permitted in <213> in SEQ ID (22)
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E 356	Organism is not permitted in <213> in SEQ ID (29)
E 356	Organism is not permitted in <213> in SEQ ID (30)
E 356	Organism is not permitted in <213> in SEQ ID (31)

Input Set:

Output Set:

Started: 2009-10-02 17:59:46.687
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Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
E 311	Invalid field content in <220> in SEQ ID (40)
E 249	Order Sequence Error <220> -> <211>; Expected Mandatory Tag: <400> in SEQID (40)
W 402	Undefined organism found in <213> in SEQ ID (40)
W 333	tabs used in amino acid numbering SEQID (40)
E 250	Structural Validation Error; Sequence listing may not be indexable

SEQUENCE LISTING

<110> Mologen Forschungs-, Entwicklungs- und Vertriebs GmbH

<120> Vaccine against Oncovirus Infections, such as infections by
Feline leukemia virus of the cat

<130> XI 1292-03

<150> DE 102 44 863.9

<151> 2002-09-23

<160> 40

<170> PatentIn version 3.3

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<211> 1929

<212> DNA

<213> Feline leukemia virus

<220>

<221> gene

<222> (1)..(1929)

<223> DNA sequence wild type "env" gene without signal peptide coding
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<300>

<308> NCBI M12500

<309> 2001-02-21

<313> (162)..(1990)

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cgaccatga	1929

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 <213> Feline leukemia virus

<220>
 <221> gene
 <222> (1)..(1527)
 <223> DNA sequence wild type "gag" gene

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gccgaatggg taatgatgaa tgtagggttg ccccgagaag gaactttcac cattgacaat	180
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aaggatagag gggaaagtaa actgggagat caaaggaaaa tacctctggg gaaagaccag	1440
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<211> 642

<212> PRT

<213> Feline leukemia virus

<220>

<221> PEPTIDE

<222> (1)..(447)

<223> Amino acid sequence of the protein corresponding to Seq.ID1

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20 25 30

Met Ala Asn Pro Ser Pro His Gln Ile Tyr Asn Val Thr Trp Val Ile
35 40 45

Thr Asn Val Gln Thr Asn Thr Gln Ala Asn Ala Thr Ser Met Leu Gly
50 55 60

Thr Leu Thr Asp Ala Tyr Pro Thr Leu His Val Asp Leu Cys Asp Leu
65 70 75 80

Val Gly Asp Thr Trp Glu Pro Ile Val Leu Asn Pro Thr Asn Val Lys
85 90 95

His Gly Ala Arg Tyr Ser Ser Ser Lys Tyr Gly Cys Lys Thr Thr Asp
100 105 110

Arg Lys Lys Gln Gln Gln Thr Tyr Pro Phe Tyr Val Cys Pro Gly His
115 120 125

Ala Pro Ser Leu Gly Pro Lys Gly Thr His Cys Gly Gly Ala Gln Asp
130 135 140

Gly Phe Cys Ala Ala Trp Gly Cys Glu Thr Thr Gly Glu Ala Trp Trp
145 150 155 160

Lys Pro Thr Ser Ser Trp Asp Tyr Ile Thr Val Lys Arg Gly Ser Ser
165 170 175

Gln Asp Asn Ser Cys Glu Gly Lys Cys Asn Pro Leu Val Leu Gln Phe
180 185 190

Thr Gln Lys Gly Arg Gln Ala Ser Trp Asp Gly Pro Lys Met Trp Gly

195

200

205

Leu Arg Leu Tyr Arg Thr Gly Tyr Asp Pro Ile Ala Leu Phe Thr Val
210 215 220

Ser Arg Gln Val Ser Thr Ile Thr Pro Pro Gln Ala Met Gly Pro Asn
225 230 235 240

Leu Val Leu Pro Asp Gln Lys Pro Pro Ser Arg Gln Ser Gln Thr Gly
245 250 255

Ser Lys Val Ala Thr Gln Arg Pro Gln Thr Asn Glu Ser Ala Pro Arg
260 265 270

Ser Val Ala Pro Thr Thr Met Gly Pro Lys Arg Ile Gly Thr Gly Asp
275 280 285

Arg Leu Ile Asn Leu Val Gln Gly Thr Tyr Leu Ala Leu Asn Ala Thr
290 295 300

Asp Pro Asn Lys Thr Lys Asp Cys Trp Leu Cys Leu Val Ser Arg Pro
305 310 315 320

Pro Tyr Tyr Glu Gly Ile Ala Ile Leu Gly Asn Tyr Ser Asn Gln Thr
325 330 335

Asn Pro Pro Pro Ser Cys Leu Ser Thr Pro Gln His Lys Leu Thr Ile
340 345 350

Ser Glu Val Ser Gly Gln Gly Met Cys Ile Gly Thr Val Pro Lys Thr
355 360 365

His Gln Ala Leu Cys Asn Lys Thr Gln Gln Gly His Thr Gly Ala His
370 375 380

Tyr Leu Ala Ala Pro Asn Gly Thr Tyr Trp Ala Cys Asn Thr Gly Leu
385 390 395 400

Thr Pro Cys Ile Ser Met Ala Val Leu Asn Trp Thr Ser Asp Phe Cys
405 410 415

Val Leu Ile Glu Leu Trp Pro Arg Val Thr Tyr His Gln Pro Glu Tyr
420 425 430

Val Tyr Thr His Phe Ala Lys Ala Val Arg Phe Arg Arg Glu Pro Ile
435 440 445

Ser Leu Thr Val Ala Leu Met Leu Gly Gly Leu Thr Val Gly Gly Ile
450 455 460

Ala Ala Gly Val Gly Thr Gly Thr Lys Ala Leu Leu Glu Thr Ala Gln
465 470 475 480

Phe Arg Gln Leu Gln Met Ala Met His Thr Asp Ile Gln Ala Leu Glu
485 490 495

Glu Ser Ile Ser Ala Leu Glu Lys Ser Leu Thr Ser Leu Ser Glu Val
500 505 510

Val Leu Gln Asn Arg Arg Gly Leu Asp Ile Leu Phe Leu Gln Glu Gly
515 520 525

Gly Leu Cys Ala Ala Leu Lys Glu Glu Cys Cys Phe Tyr Ala Asp His
530 535 540

Thr Gly Leu Val Arg Asp Asn Met Ala Lys Leu Arg Glu Arg Leu Lys
545 550 555 560

Gln Arg Gln Gln Leu Phe Asp Ser Gln Gln Gly Trp Phe Glu Gly Trp
565 570 575

Phe Asn Lys Ser Pro Trp Phe Thr Thr Leu Ile Ser Ser Ile Met Gly
580 585 590

Pro Leu Leu Ile Leu Leu Leu Ile Leu Leu Phe Gly Pro Cys Ile Leu
595 600 605

Asn Arg Leu Val Gln Phe Val Lys Asp Arg Ile Ser Val Val Gln Ala
610 615 620

Leu Ile Leu Thr Gln Gln Tyr Gln Gln Ile Lys Gln Tyr Asp Pro Asp
625 630 635 640

Arg Pro

<210> 4
 <211> 508
 <212> PRT
 <213> Feline leukemia virus

 <220>
 <221> PEPTIDE
 <222> (1)..(508)
 <223> Amino acid sequence of the protein corresponding to Seq.ID2

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 20 25 30

Lys Lys Trp Ile Thr Leu Cys Glu Ala Glu Trp Val Met Met Asn Val
 35 40 45

Gly Trp Pro Arg Glu Gly Thr Phe Thr Ile Asp Asn Ile Ser Gln Val
 50 55 60

Glu Glu Arg Ile Phe Ala Pro Gly Pro Tyr Gly His Pro Asp Gln Ile
 65 70 75 80

Pro Tyr Ile Thr Thr Trp Arg Ser Leu Ala Thr Asp Pro Pro Pro Trp
 85 90 95

Val Arg Pro Phe Leu Pro Pro Pro Lys His Pro Arg Thr Asp Pro Pro
 100 105 110

Glu Pro Leu Ser Pro Gln Pro Leu Ala Pro Gln Pro Ser Ser Pro His
 115 120 125

Pro Val Leu Tyr Pro Val Leu Pro Lys Pro Asp Pro Pro Lys Ala Pro
 130 135 140

Val Leu Pro Pro Asn Pro Ser Ser Pro Leu Ile Asp Leu Leu Thr Glu
 145 150 155 160

Glu Pro Pro Pro Tyr Pro Gly Gly His Gly Pro Thr Pro Pro Ser Gly
 165 170 175

Pro Arg Thr	Pro Thr Ala	Ser Pro Ile	Ala Ile Arg	Leu Arg Glu	Arg
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Arg Glu Asn	Pro Ala Glu	Lys Ser Gln	Ala Leu Pro	Leu Arg Glu	Asp
195		200		205	
Pro Asn Asn	Arg Pro Gln	Tyr Trp Pro	Phe Ser Ala	Ser Asp Leu	Tyr
210		215		220	
Asn Trp Lys	Leu His Asn	Pro Pro Phe	Ser Gln Asp	Pro Val Ala	Leu
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Asp Cys Gln	Gln Leu Leu	Gln Ala Leu	Leu Thr Ala	Glu Glu Arg	Gln
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Arg Val Leu	Leu Glu Ala	Arg Lys Gln	Val Pro Gly	Glu Asp Gly	Arg
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Pro Thr Gln	Leu Pro Asn	Val Val Asp	Glu Ala Phe	Pro Leu Thr	Arg
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Pro Asn Trp	Asp Phe Cys	Thr Pro Ala	Gly Arg Glu	His Leu Arg	Leu
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Tyr Arg Gln	Leu Leu Leu	Ala Gly Leu	Arg Gly Ala	Ala Arg Arg	Pro
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Thr Asn Leu	Ala Gln Val	Lys Gln Val	Val Gln Gly	Lys Glu Glu	Thr
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Pro Ala Ser	Phe Leu Glu	Arg Leu Lys	Glu Ala Tyr	Arg Met Tyr	Thr
	355		360		365
Pro Tyr Asp	Pro Glu Asp	Pro Gly Gln	Ala Ala Ser	Val Ile Leu	Ser
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Glu Gly Leu Gln Gly Phe Thr Leu Ser Asp Leu Leu Lys Glu Ala Glu
405 410 415

Lys Ile Tyr Asn Lys Arg Glu Thr Pro Glu Glu Arg Glu Glu Arg Leu
420 425 430

Trp Gln Arg Gln Glu Glu Arg Asp Lys Lys Arg His Lys Glu Met Thr
435 440 445

Lys Val Leu Ala Thr Val Val Ala Gln Asn Arg Asp Lys Asp Arg Gly
450 455 460

Glu Ser Lys Leu Gly Asp Gln Arg Lys Ile Pro Leu Gly Lys Asp Gln
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Cys Ala Tyr Cys Lys Glu Lys Gly His Trp Val Arg Asp Cys Pro Lys
485 490 495

Arg Pro Arg Lys Lys Pro Ala Asn Ser Thr Leu Leu
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<210> 5
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<212> DNA
<213> Feline leukemia virus

<220>
<221> misc_feature
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<210> 6

<211> 509

<212> PRT

<213> Feline leukemia virus

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<221> PEPTIDE

<222> (1)..(509)

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Gly Trp Pro Arg Glu Gly Thr Phe Thr Ile Asp Asn Ile Ser Gln Val
50 55 60

Glu Glu Arg Ile Phe Ala Pro Gly Pro Tyr Gly His Pro Asp Gln Ile
65 70